

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A dynamic seal for a rotary shaft, ~~the seal~~ comprising a sleeve for being constrained in rotation on the shaft and an annular lip of polymer having a low coefficient of friction to come into sliding rotary contact with a stationary casing surrounding said shaft so that ~~the~~ said dynamic seal provides sealing between said shaft and said casing, wherein said dynamic seal further comprises an annular encoder element of magnetizable polymer presenting at least one polarized mark, said encoder element being is secured to said sleeve and having ~~presents~~ at least one annular surface to which said lip is bonded.
2. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the encoder element is made of elastoferite.
3. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the lip is made of PTFE.
4. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the lip is bonded directly to the encoder element.
5. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the annular surface of the encoder element extends radially.
6. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the encoder element is bonded directly to the sleeve, said sleeve being made of metal.

7. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the encoder element presents a circular track provided with polarized marks formed by sectors with alternating north and south polarization.

8. (Currently Amended) A seal according to claim 1, wherein ~~in which~~ the encoder element presents a first annular face facing radially inwards which is bonded directly to an outside wall of the longitudinally-extending sleeve, and a second annular face facing radially outwards on which the track provided with polarized marks is formed.

9. (Currently Amended) A seal according to claim 8, wherein ~~in which~~ the second annular face presents a portion extending along a fraction of the shaft which is not surrounded by the stationary casing, the track provided with polarized marks being formed on said portion.

10. (Currently Amended) A seal according to claim 7, wherein ~~in which~~ the sleeve presents an annular collar extending radially and in which the encoder element presents a first annular face extending radially, which face is bonded directly to said collar, and a second annular face parallel to the first face, on which the track provided with polarized marks is formed.

11. (Original) A device comprising a rotary shaft, a casing filled with liquid in which the rotary shaft penetrates, and a dynamic seal according to claim 1 having its sleeve constrained to rotate with the rotary shaft and having its sealing lip in sliding contact with the casing, thereby providing sealing between said shaft and said casing.

12. (Currently Amended) A method of fabricating a dynamic seal for a rotary shaft ~~according to claim 1, the seal~~ comprising a sleeve, for being constrained in

rotation on the shaft, an annular lip of polymer having a low coefficient of friction to come into sliding rotary contact with a stationary casing surrounding said shaft so that said dynamic seal provides sealing between said shaft and said casing, and an annular encoder element of magnetizable polymer having at least one polarized mark and at least one annular surface, an annular encoder element made of elastoferite, and a sealing lip made of a polymer having a low coefficient of friction, the method comprising the following steps:

placing said sleeve, a blank for said encoder element having at least one annular surface, and a perform for said lip concentrically in a first half-mold, said blank being at least partially in contact with said sleeve, and said perform being at least partially in contact with the annular surface of said blank; and

hot-pressing by means of a second half-mold to vulcanize said blank, to bond said perform for said lip to the annular surface of said blank, and also to shape said blank for the encoder element and said perform for the lip to take up a determined profile.